

## ABSTRACT

An information recording device and method capable of forming a recording mark by suppressing thermal interference. The device applies a laser beam to a recording medium and forms a recording mark in accordance with a recording signal. The device includes a light source for emitting the laser beam, signal generation elements for generating a recording pulse signal according to the recording signal, and drive elements for driving the light source according to the recording pulse signal. The recording pulse signal has a mark period for forming the recording mark and a space period. The recording pulse signal makes the level in the entire space period equal to or shorter than a predetermined length and a part of the space period longer than the predetermined length to be off level. While the recording pulse signal is off level, the recording medium is cooled down, thereby suppressing the affect of thermal interference.